FE247

Diagram No. 1234-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. RH-20-7-83

Office No. FE-247

LOCALITY

State North Carolina

General Locality Atlantic Ocean

Locality South of Money Island Beach

1983

CHIEF OF PARTY
LCDR R.C. Arnold

LIBRARY & ARCHIVES

DATE October 27, 1983

11547 RPK 11543 RPK 11543 RPK 11544 RPK

aria 2 \$ 3

11520 Polar

☆U.S. GOV. PRINTING OFFICE: 1980-766-230

MADIN	FORM	77-28
(11-7	121	

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RIEGISTER NO.

HYDROGRAPHIC TITLE SHEET

FE-247

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

RH-20-07-83

General locality NORTH CAROLINA COAST ATLANTIC OCEAN Locality ATLANTIC BEACH SOUTH OF MONEY ISLAND BEACH Scale 1:20,000 Date of survey 31 MAY 1983 - I JUNE 1983 Instructions dated MAY 20, 1983 Project No. S-F605-RU/HE-83
Scale 1:20,000 Date of survey 31 MAY 1983 - 1 JUNE 1983
Instructions dated MAY 20, 1983 Project No. S-F605-RU/HE-83
Vessel NOAA SHIPS RUDE (9040) and HECK(9140)
Chief of party LCDR RUSSELL C. ARNOLD
Surveyed by LCDR R. ARNOLD, LCDR D. WINTER, LT N. MILLETT, ENS T. CALLAHAN
Soundings taken by echansonader, hand head, pules PNEUMATIC DEPTH GAUGE
Graphic record scaled by N/A
Graphic record checked by N/A
Protracted by Automated plot by XYNETICS 1201 (AMC)
Verification by See Evaluation Report
Soundings in fathoms feet at MLW MLLW SOUNDINGS REDUCED FOR ATLANTIC BEACH PREDICTED TIDES
REMARKS: ALL TIMES RECORDED FOR THIS SURVEY ARE G.M.T.
STANDARDS CK'D 10-31-83.
C.lay
- AWOIS CRECKIED 11-3-83 STV
AWOS CHECKIED 11-3-83 STV
AWO'S CRECKED 11-3-83 STV

CONTENTS

- A. AUTHORITY
- B. CHARACTER AND LIMITS OF WORK
- C. CONTROL
- D. DATES OF SURVEY
- E. INCOMPLETE ITEMS
- F. EQUIPMENT AND TECHNIQUES
- G. CHARTING RECOMMENDATION

DESCRIPTIVE REPORT

HYDROGRAPHIC TO Accompany
FIELD EXAMINATIONSIDE SCAN SONAR SURVEY #= FE-247
Field Number RH-20-07-83

A. AUTHORITY

This survey was accomplished in accordance with project instructions for S-F605-RU/HE-83, Atlantic Beach, dated May 20, 1983.

B. CHARACTER AND LIMITS OF WORK

The purpose of this project was to investigate the wreck of the trawler PARKINS (AWOIS #00607). A side scan sonar search was conducted within a 200-meter radius circle about the position of the wreck.

C. CONTROL

Vessel positioning for all work was accomplished with the Del Norte 520 system. A baseline calibration of all equipment was accomplished on 30 May 1983. Daily calibration was accomplished by three-point sextant fix with check fix. A complete listing of signals used is contained in Appendix B.

D. DATES OF SURVEY

This survey was begun on 31 May 1983 and completed on 1 June 1983.

E. INCOMPLETE ITEMS

The one item assigned for this project was completed.

F. EQUIPMENT AND TECHNIQUES

This item was investigated using Klein Side Scan Sonar. A 100 KHz fish was towed behind the HECK to locate the wreckage. The ship's Raytheon DE-719B fathometer was run continuously during side scan operations. A solid contact was obtained at the charted position of the wreck. Divers subsequently investigated the contact and obtained a least depth with a pneumatic depth gauge. See Appendix A for the divers report and description of the item.

G. CHARTING RECOMMENDATION See Evaluation Report, section 6

NOS Chart 11547 indicates "Wreekage" cleared to 18 feet. The RUDE and HECK diving operations obtained a slightly shoaler least depth of 17.4 feet. A Notice to Mariners was issued to warn of a potentially shoaler depth, pending office review. (See Appendix D).

The position of the wreck, Latitude 34°41'07.8"N, Longitude 76°43'19.2"W, is incorrectly charted, and the least depth charted is within 1/2 foot of the actual least depth.

(greater than

APPROVAL SHEET

RH-20-07-83

Field operations contributing to the accomplishment of this survey were conducted under my supervision with frequent personal checks of progress and adequacy. This report and field sheets have been closely reviewed. See Section G. for charting recommendations.

Russell C. Arnold LCDR, NOAA Commanding Officer NOAA Ships RUDE & HECK

APPENDIX A DIVING OPERATIONS

						,	, ,	
Dive vers	Pressure	Out Pressure	Pressure	In Time	Out	Time	Depth	Com
'ERAWAY	2750ps;	1150 psi	1500 psi	13:44	14:12	38 MiN.	32 FA	
· Ch	3000 ps;	0800 psi	2200 ps;	13:44	14:12	38min.	3.2 ft.	
119 har	3000 poi	1000 psi	2000 PS,	13:44	14:12:	38 min.	32++·	
1 000		3						:
d Dive	2900 ps;	1400 psi	1500 psi.	14:35	1520	25 min.	32.4.	
+RANNEY		c 600 ps;	1600 psi	14:55	15:20	25 min.	32 ft.	
mit h	2200 psi	1600 ps;	1400 psi	14:55	15:20	25 min.	32 ft.	1
4112MN	3000 psi	1,00						1
Loive	1400 psi	200 ps;	1200 psi	15:49	16:12	23 min.	1 , 1	
2112MAN	1900 psi	300 psi	1600 psi	15:49	16:12	23 miv.	32 ft.	
				11			1	

And lowed a wood and metal wreck 65 feet (App.) from marker.

The hishest point appeared to be the most; made of metal about

to 10 inches across. The wreck was highly deteriorated tho

me metal mast seemed to be firmly inbeded in the sandy

sottom. The mast pose from 32 ft. on the bottom to 19ft. At

east depth. Giving the item A 13 ft. Spille.

See Eveluation Regart

ITEM INVESTIGATION

DATE: 6/1/83	SHIP/LAUNCH_	20
LOCATION: AHANIC BE		
		W/W/A
DIVE MASTER CAROAURY		
		TMES
DIVERS: OFROMEWRY		IN WATER See Attached
5mith		UNDER WATER COPY.
CALLAGAN		ON SURVACE
<u> </u>		IN BOAT
MAXIMUM DEPTH 32 44	DIVIN DIELUTO	86 min Total Dives
		10 11V/V. 101171 NI VES
PALUNOPATHOMETER NO. ITEM ## / POST TON LLAST DEPTH 1. #S## / 19 ## 2. 3. BOTTOM GENT TIME DEPTH 1. #S## / 32## 2. 3. 3. 3. 3. 3. 3. 3. 3. 3.	POSITION LEAST DEPTH TIME DEPTH 1	POSITION LEAST DEPTH TIME DEPTH 2. 3. BOTTOM TIME DEPTH
DRAWING OF ITEM	Wood AND ON Flat 3 Highest po Mennylus of 8-10 inches Off A 32 A LEAST O WYORK WIN	metal week, localed sandy Isilty boxtom. nixt appeared to be of most. It was metal across and rose 13th across and rose 13th appeared to be port of 19th. The lepth of 19th. The bottom. t The most seemed beded in the bottom.

R. 2680 Rz 1500

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APPENDIX B
      5-F605-RU[HE-83
       SIGNALS/STATIONS
                1983 (Field Pos)
Stg. 01 PEPPERTREE (72) SN 2897 180° Antenna control Station
       ID NBR 1
       LAT 344152.791
LON 764449.639
       ELEV'N 4.00 M .
       FILE
Sta. 02 PIER, (76) S/N 3004, 180° Antenna Control Station
       ID NBR
       LAT 344144.714
LON 764239.370
        ELEV'N 2.00 M
        FILE
        MOREHEAD CITY CAROLINA TT TWR, 1962 Calib. Sta.
     CAROLINA TIT MICROWAVETW.
        ID NBR 3
        LAT 344314.731
        LON 764253.406
        FILE
         MOREHEAD CITY ST PORT TERM TK, 1967 Calib. Sta.
      STATE PORT TERMINAL TY.
        ID NBR
        LAT 344310.513
LON 764159.618
         FILE
          BEAUFORT
        ME CHURCH SPIRE Not Use d
        ID NBR 5
LAT 344304.115
         LON 763950.278
         FILE
         BEAUFORT COURTHOUSE PUPOLA, 1913. Calib. Star
       COURT HOUSE CUPOLA
         ID NBR 6
LAT 344310.582
LON 763946.846
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PROJECT:

FILE

APPENDI C

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			1	Co	urse		Dist	ance		Lora				W	ņd	Visual, Rada	ır, Astro Fiz	es or Rema	uks
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APPENDIX D



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NOAA SHIPS RUDE & HECK 439 West York St. Norfolk, VA 23510

June 26, 1983

Commander, 5th Coast Guard District To:

Federal Building 431 Crawford St.

Portsmouth, VA 23705

LCDR Russell C. Arnold From:

Commanding Officer

Subj: Notice to Mariners

Recent survey operations by the NOAA Ships RUDE and HECK in the vicinity of Atlantic Beach, North Carolina, confirmed the existence of wreckage at Latitude 34°41'07.8"N, Longitude 76°43'19.2"W. Least depth over the wreckage, reduced for predicted tides was 17.4 feet in lieu of the 18 feet presently charted. LORAN C comparisons taken in the vicinity of the wreck indicate that LORAN C fixes, using X and Y rates, plot 0.12 to 0.15 nautical mile due west of true positions.

> See Smooth Plot of FE-247 for position and depoth.

cc: AMC/MOA1 N/CG241

ref L-582(83)



APPENDIX E

PNEUMOFATHOMETER CALIBRATION

June 14, 1983

Seas: Calm Swell: 2-3'

LEADLINE (FT.)	FATHOMETER (FT.)	CORRECTION (FT.)
2.0	2.0	
4.0	4.0	·
6.0	6.0	_
8.0	8.0	<u> </u>
10.0	10.0	_
12.0	11.5	+0.5
14.0	14.0	-
16.0	16.0	-
18.0	18.0	_
20.0	20.0	_
22.0	21.8	+0.2
24.0	24.0	-
26.0	26.0	-
28.0	27.8	+0.2
30.0	30.0	_
32.0	32.0	-
34.0	33.8	+0.2
36.0	36.0	-
38.0	38.0	-
40.0	39.5	+0.5
42.0	41.0	+1.0
44.0	43.0	+1.0
46.0	45.5	+0.5
48.0	46.5	+1.5
50.0	49.5	+0.5
52.0	52.0	
54.0	53.0	+1.0
56.0	55.5	+0.5
58.0		+2.0
60.0	59.0	+1.0
62.0	62.0	-
64.0	63.0	+1.0
68.0	65.0	+3.0 +1.0
70.0	69.0 71.5	+0.5
72.0	71.3 73.0	+1.0
74.0		+1.0
76.0 78.0	75.0 77.0	+1.0
	77.0 79.0	+1.0
80.0	79.0 81.0	+1.0
82.0	83.0	+1.0
84.0	85.0 85.0	+1.0
86.0	86.0	+2.0
88.0		

U.S. DEPARIMENT OF COMPERCE . NATIONAL OCEANIC AND AIMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 865-6483 Duke Marine Lab, Beaufort, NC

Period: June 1, 1983

Wire Drag

OPR: F605

Locality: Offshore Atlantic Beach, North Carolina

Plane of reference (mean low water): 1.84 feet

Height of Mean High Water above Plane of Reference is 2.9 feet

REMARKS: Recommended Zoning:

Apply - 40 minute time correction and x 1.30 Range Ratio

Chief, Datums and Information Branch

NDAA FORM 76-155 (11-72) NA	DAA FORM 76-155 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									SURVEY NUMBER				
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NOAA FORM	77-27		U. S. 1	DEPARTMENT C	F COMMERCE	REGISTRY N	JMBER		
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Verification	of Field Data by				Time (Hours)	Endi	ng Date		
C.D.	Meador. Great br				See E AB	Endii	9/8/83		
R.D.	Sanocki and Analysis by				Time(Hours)		9/14/83		
C. D	Meador				15		9/9/83		
Inspection	vm. Kiening	ور (and. R.D.	Time (Hours)	Endi	9/14/83			

ATLANTIC MARINE CENTER EVALUATION REPORT

REGISTRY NO.: FE-247

FIELD NO.: R/H-20-7-83

North Carolina, Atlantic Ocean, South of Money Island Beach

SURVEYED:

May 31 through June 1, 1983

SCALE: 1:20,000

PROJECT NO.: S-F605-RU/HE-83

SOUNDING:

Pneumatic Depth Gauge

CONTROL: DEL NORTE 520

(Range/Range)

T.G. Callahan

I. INTRODUCTION

- a. No unusual problems were encountered during verification.
- b. Notes in the Descriptive Report were made in red during verification.

2. CONTROL AND SHORELINE

- a. See section 4.a of this Evaluation Report for a discussion of the control information in the Descriptive Report.
- b. Shoreline in brown was added to the present survey from Chart 11547, 23rd Edition, February 20, 1982 and is for orientation purposes only.

3. <u>HYDROGRAPHY</u>

The only hydrography on this survey is a single Pneumatic Depth Gauge least depth taken on the wreck of the trawler PARKINS.

4. CONDITION OF SURVEY

The smooth sheet, hydrographic records and reports comply with the Hydrographic Manual and the Wire Drag Manual except as follows:

- a. The discussion of control in section C of the Descriptive Report did not state the datum of the control stations, identify all electronic control equipment by manufacturer, model and component serial numbers for each vessel and shore station or give an evaluation of the adequacy of the calibration data as required by section 5.3.4 F and G of the <u>Hydrographic Manual</u>.
- b. No abstract of corrections to Electronic Position Control was appended to the Descriptive Report as required by section 5.3.4.G of the <u>Hydrographic Manual</u>.
- c. None of the paper tapes required to plot the survey information were submitted by the field.
- d. A plot of the vessel's positions during side-scan sonar work was not submitted by the field as required by section 7.12.3.1 of the Project Instructions.
- e. An investigation of charted or uncharted landmarks was not done as required by section 7.14.2 of the Project Instructions.
- f. The buoy marking the wreck of the trawler PARKINS was not located as required by section 7.14.3 of the Project Instructions.
- g. A comparison with the prior surveys was not made as required by section 5.3.4K of the <u>Hydrographic Manual</u> and page 79 of the <u>Wire Drag Manual</u>.
- h. No abstract of positions was appended to the Descriptive Report as required by section 5.3.5G of the <u>Hydrographic Manual</u> and section 7.12.3.1 of the Project Instructions.
- i. No Field Tide Note was appended to the Descriptive Report as required by section 5.3.5B of the <u>Hydrographic Manual</u> and page 78 of the <u>Wire Drag Manual</u>.
- j. A report on currents was not included in the Descriptive Report as required by section 8.2.2 of the Project Instructions.

5. JUNCTIONS

This is an item investigation with no junctional requirements.

6. COMPARISON WITH PRIOR SURVEYS

H-8247WD (1:20,000) 1955

H-9421 (1:10,000) 1974

H-9434 (1:5,000) 1974

The wire drag work plotted on survey H-8247WD is the source of the charted location and wire drag clearance depth for the wreck of the trawler PARKINS.

Survey H-8247WD (1955) hung the wreck at 19 feet, obtained a clearance depth of 18 feet, and an actual depth of 18 feet on the wreck. The present survey obtained a least depth of 17 feet, measured by divers. The positional difference of approximately 50 meters may be attributable to a combination of natural processes and position methods used. The difference in depths on the wreck may have been caused by movement of the wreck subsequent to the prior survey and/or possibly sounding methods of the prior survey.

On both surveys H-9421 and H-9434 the location of the wreck falls between sounding lines which do not show any indication of its existence. The location and wire drag clearance depth for the wrecks were brought forward from survey H-8247WD to both these surveys.

The present field examination is adequate to supersede these prior surveys for the location and least depth of the wreck of the PARKINS. The charted wreck cleared to 18 feet should be revised to a 17 foot wreck with a danger curve.

7. COMPARISON WITH CHART NO. 11547 (23rd Edition, February 20, 1982)

a. Hydrography

The location and wire drag clearance depth for the wreck PARKINS originated with the previously discussed prior survey H-8247WD and is adequately discussed under that comparison.

The present field examination is adequate to supersede the charted information for this wreck.

b. Aids to Navigation

There is one floating and no fixed aids to navigation within the limits of the present field examination. (See section 4.f of this report).

8. COMPLIANCE WITH INSTRUCTIONS

Except as listed elsewhere in this report, this field examination adequately complies with the Project Instructions.

9. ADDITIONAL FIELD WORK

This is a good field examination and no additional field work is recommended.

Charles D. Meador
Cartographer
Verification of Field Data
Evaluation and Analysis

INSPECTION REPORT FE-247

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts of the survey have been made. The survey complies with National Ocean Service requirements except as noted in the Evaluation Report. The survey records comply with NOS requirements except where noted in the Evaluation Report.

Inspected

R. D. Sanocki

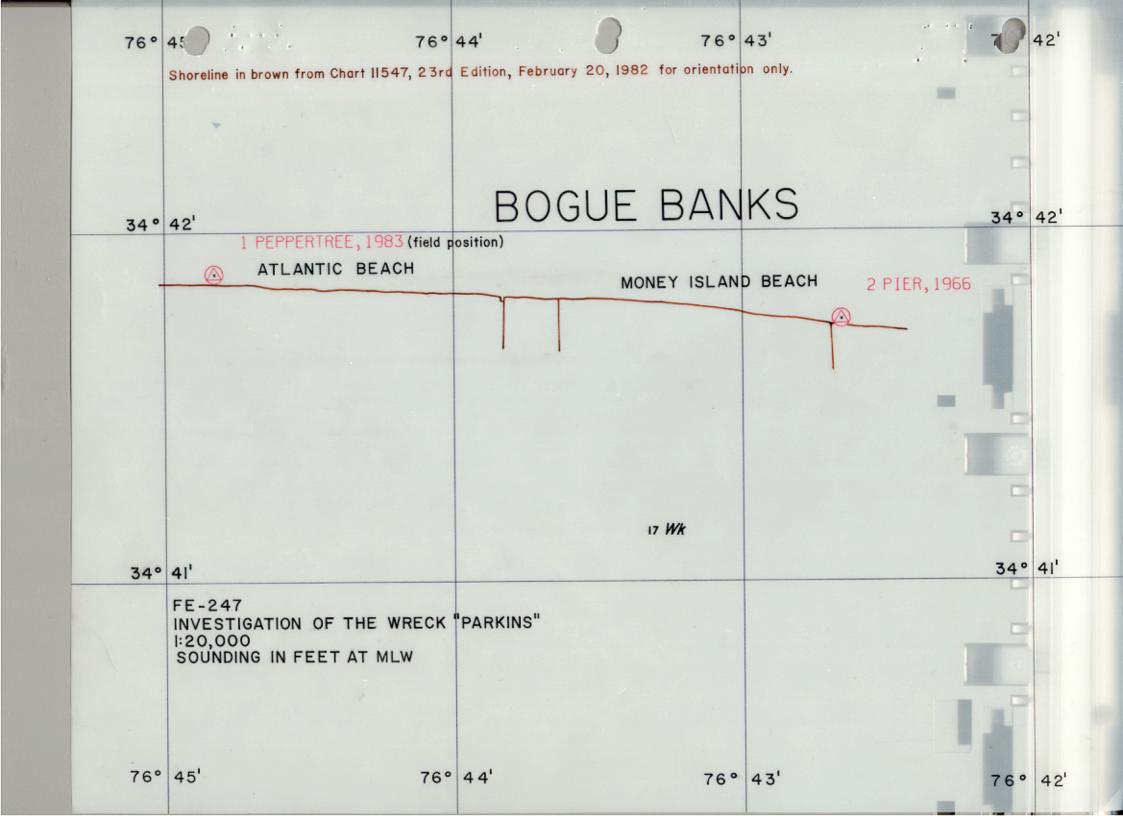
Chief, Verification Section Hydrographic Surveys Branch

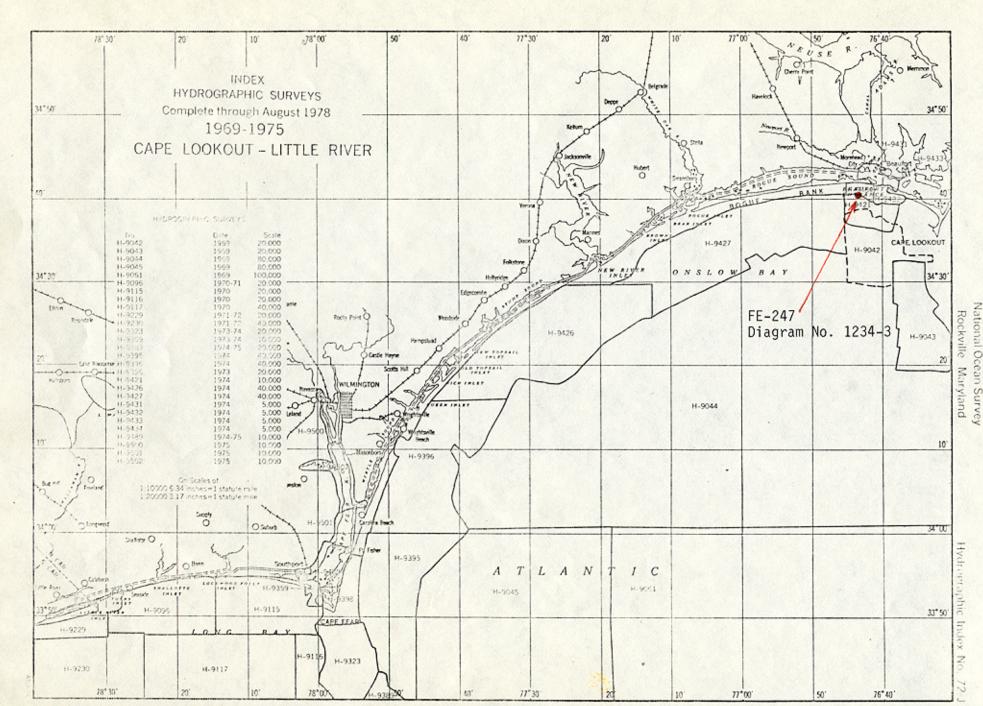
Karlum Neninger

Karl Wm. Kieninger, CDR, NOAA Chief, Hydrographic Surveys Branch

Approved 15 September 1983

Wesley V. Hull, RADM, NOAA Director, Atlantic Marine Center





DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. FE-247

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Ch

CHART	DATE	CARTOGRAPHER	→o'L REMARKS
11541A	11-9-83	Russell PKennest	Full After Verification Review Inspection Signed Via
		(Drawing No. 21
		A	30'L
11543	11-9-83	Kussell P Kernedy	Full Part Before After Verification Review Inspection Signed Via
		0	Drawing No. 29
			30'L
1545	11-9-93	Russell & Kennedy	Full Pur Beine After Verification Review Inspection Signed Via
			Drawing No. 47
			30'6
11547	11-9-83	Kussell P Kennede	Full Pare Burfare After Verification Review Inspection Signed Via
			Drawing No. 3
1520	11-14-83	Jan Ply in	Full Part Defore After Verification Review Inspection Signed Via
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